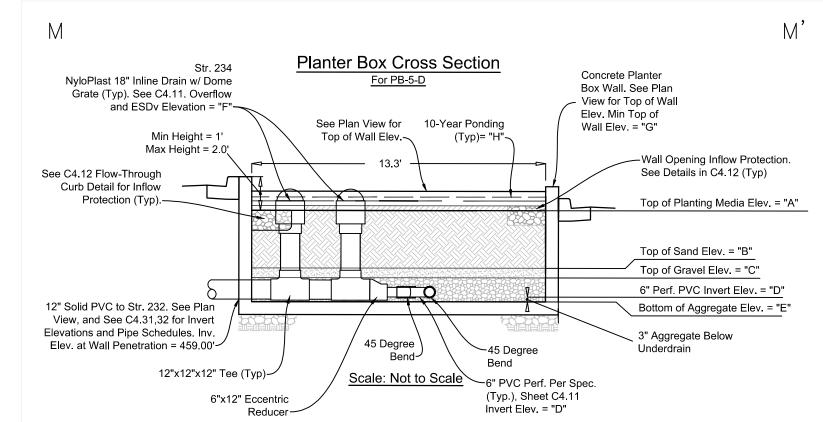
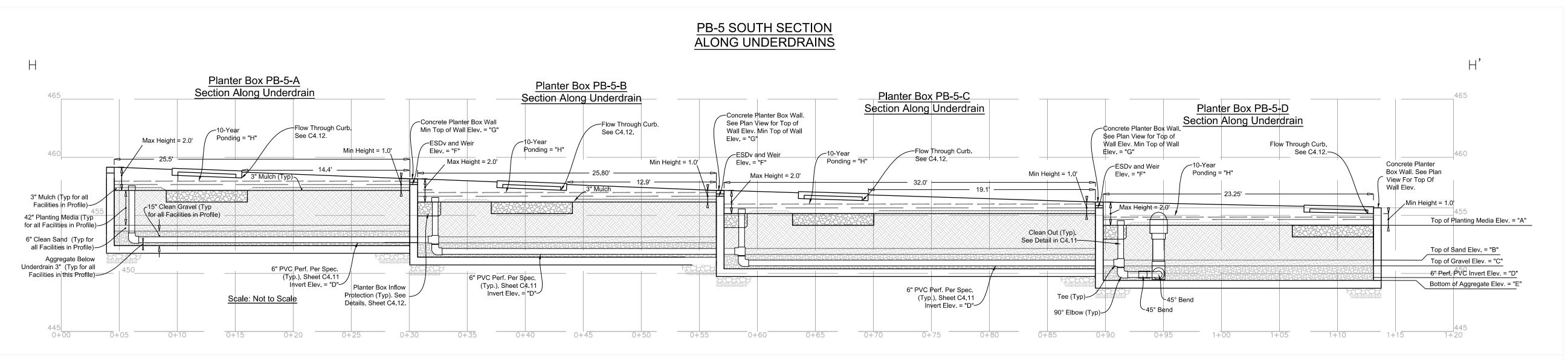
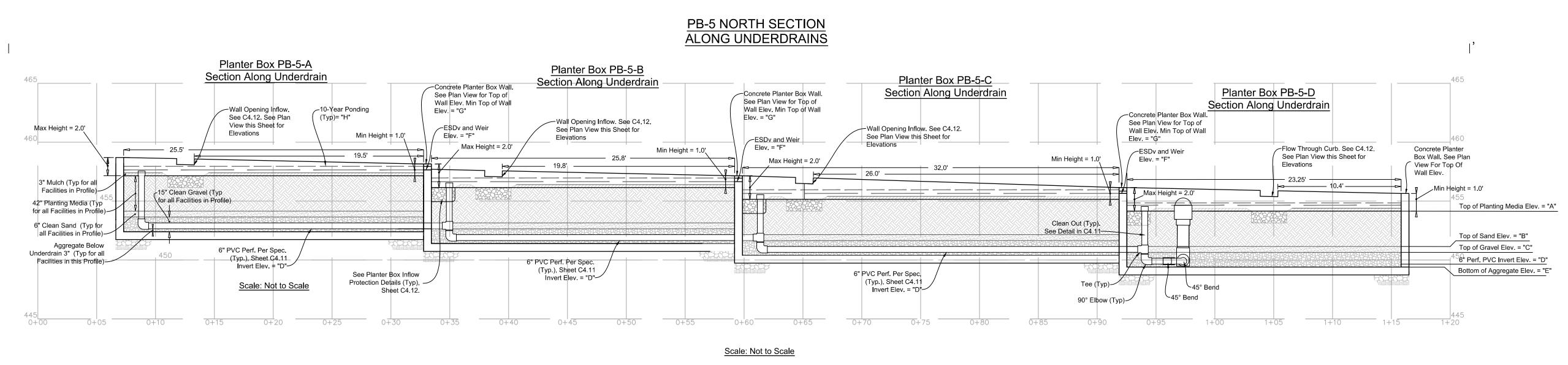
J',K',L' Planter Box Cross Section Concrete Planter Box Wall. See Plan See Planter Box Inflow View for Top of Wall Protection Details (Typ), Elev. Min Top of Sheet C4.12.~ Btm of 2' Wide x 0.2' Wall Elev. = "G" Min Height = 1' high Weir at Elev. "F" Max Height = 2.0' Wall Opening Inflow Protection. See C4.12 Flow-Through See Details in C4.12 (Typ) Curb Detail for Inflow Protection (Typ).— Top of Planting Media Elev. = "A" 3" Mulch-42" Planting Media Top of Sand Elev. = "B" 6" Clean Sand Ⅎ Top of Gravel Elev. = "C" 15" Clean Gravel -6" Perf. PVC Invert Elev. = "D" Bottom of Aggregate Elev. = "E" Underdrain 3" Scale: Not to Scale



Micro-Bioretention Planter Box Detailed Plan View PB-5-A,B,C,D





CONSTRUCTION INSPECTION CHECK-OFF LIST FOR MICRO BIORETENTION FACILI	TY PB-	5-A	PB-	5-B	PB-	5-C	PB-	-5-D
STAGE	MCDPS INSPECTOR	OWNER/ DEVELOPER	MCDPS INSPECTOR	OWNER/ DEVELOPER	MCDPS INSPECTOR	OWNER/ DEVELOPER	MCDPS INSPECTOR	OWNER/ DEVELOPER
MANDATORY NOTIFICATION: Inspection and approval of each practice is required at these points prior to proceeding with construction. The permittee is required to give the MCDPS Inspector twenty-four (24) hours notice (DPS telephone 311). The DPS inspector may waive an inspection and allow the owner/developer to make the required inspection per a prior scheduled arrangement which has been confirmed with the DPS inspector in writing. Work completed without MCDPS approval may result in the permittee having to remove and reconstruct the unapproved work. Upon completion of the project, a formal Stormwater Management As-Built must be submitted to MCDPS unless a Record Drawing Certification has been allowed instead. Each of the steps listed below must be verified by either the MCDPS Inspector OR the Owner/Developer.	INITIALS/DATE	INITIALS/DATE	INITIALS/DATE	INITIALS/DATE	INITIALS/DATE	INITIALS/DATE	INITIALS/DATE	INITIALS/DATE
Excavation for Micro Bioretention facility conforms to approved plans								
Placement of stone backfill and underdrain system conforms to approved plans								
3. Placement of filter media conforms to approved plans								
4. Connecting pipes and/or grading conveyance to the facility constructed per the approved plans								
5. Final grading and permanent stabilization conforms to approved plans								

Design Engineer SWM Construction Observation Requirements The contractor is required to contact the Design Engineer at (301) 670-0840 with at least 24 hours advance notice at the following stages of Micro-Bioretention (MB), Micro-Bioretention w/ Impervious Liner (MB(L)), Planter Box Micro-Bioretention (PB),

Failure to notify the Design Engineer may necessitate SWM facility reconstruction.

• Facility excavation: MB, MB(L), BS • Concrete slab and wall form work: PB Installation of impervious liner: MB(L) Aggregate installation Underdrain layout and installation

and/or Bio-Swale (BS) facility construction:

 Sand layer installation Planting media installation SWM plantings and landscaping installation

BIORETENTION FACILITY MAINTENANCE SCHEDULE RECOMMENDED INTERVAL MONTHLY AND AFTER HEAVY RAINS INSPECT AND REPAIR SOIL EROSION MINIMUM 2 TIMES PER YEAR (SPRING REMOVE LEAVES, DEBRIS, TRASH, SILT, ETC. & REPLACE MULCH LAYER AND FALL) INSPECT PLANTS FOR DAMAGE & MINIMUM 2 TIMES PER YEAR DISEASE/PEST PROBLEMS PRUNE AND (3/15-4/30 and 10/1-11/30)TREAT PLANTS AS NEEDED & AS APPROPRIATE PER SPECIES, REMOVE AND REPLACE DEAD AND DISEASED PLANTS CONSIDERED BEYOND TREATMENT

REQUIRED AGGREGATE GRADATION

BIORETENTION AREA PLANTING SOIL

DOCUMENTATION REQUIREMENTS 4. MICRO-BIORETENTION AREA

SPECIFICATIONS

ID	Descriptor		Facility PB-5-A	Facility PB-5-B	Facility PB-5-C	Facility PB-5-D	
Elev. "A"	Top of Planting	Design	467.15	466.15	465.15	464.15	
	Media	As-Built					
Elev. "B"	Top of Sand	Design	463.65	462.65	461.65	460.65	
		As-Built					
Elev. "C"	Top of Gravel	Design	463.15	462.15	461.15	460.15	
		As-Built					
Elev. "D"	PVC Underdrain Invert	Design	462.15	461.15	460.15	459.15	
		As-Built					
Elev. "E"	Bottom of	Design	461.9	460.9	459.9	458.9	
	Aggregate	As-Built					
Elev. "F"	Overflow & ESDv	Design	467.65	466.65	465.65	464.65	
	Ponding Elev.	As-Built					
Elev. "H"	10-Year Ponding Elev.	Design	467.95	466.96	465.97	464.86	
		As-Built					
Elev. "G"	Min. Top of Wall	Design	468.15	467.15	466.15	465.15	
		As-Built					
Facility Surface Area		Design	339.01	342.84	426.26	301	
		As-Built					
ESDv Provided		Design	711.92	719.96	895.15	632.10	
		As-Built					
Total Perforated D		Design	92'				
Underdra	ain Length for PB-	As-Built					
Receiving Storm Drain Str.		234	234	234	234		

NOTE: Contractor shall confirm that dimensions, inflow locatoins, roof leader locations and other design elements of ALL ESD/SWM facilities as shown on these plans are coordinated with architectural and other trade plans. If any discrepancies are found, the Contractor is to contact the design engineer and architect prior to proceeding with construction. Site utilities are to be constructed in locations shown. If a utility location is changed and is found to conflict with a ESD/SWM facility, the facility must be reviewed and approved by the County, Design Engineer, Architect and appropriate trade prior to utility construction. Modifications to the Stormwater Management Plan will require a formal revision to the plan with the Montgomery County Department of Permitting Services, which will include applicable plan revision fees, and may not be acceptable.

MANAGEMENT PLAN

12/04/20 SM#285890 SC#286335

SWM PB-5-A,B,C,D PLAN VIEW AND DETAILS

SC012PB5ABCD

ARCHITECT

9211 CORPORATE BLVD, SUITE 340 **ROCKVILLE, MD 20850**

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CIVIL MACRIS, HENDRICKS & GLASCOCK 9220 WIGHTMAN RD, SUITE 120 **MONTGOMERY VILLAGE, MD 20886**

301-670-0840(P) STRUCTURAL COMPREHENSIVE

9220 WIGHTMAN RD, SUITE 120 **MONTGOMERY VILLAGE, MD 20886** 240-200-5599(P)

MECH./ELECTRICAL/PLUMBING

11155 RED RUN BLVD, SUITE 310

BALTIMORE, MD 21117

STRUCTURAL SOLUTIONS

JAMES POSEY ASSOCIATES

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240-683-9530 (P) SUSTAINABILITY

18219-A FLOWER HILL WAY

GAITHERSBURG, MD 20879

DOO CONSULTING, LLC

531 PICCADILLY ROAD BALTIMORE, MD 21204

443-653-3792 (P) **CONSTRUCTION MANAGER**

SKANSKA USA BUILDING INC

700 KING FARM BLVD, SUITE 200 ROCKVILLE, MD 20850 301-795-3100 (P)

Professional Certification. hereby certify that these documents were prepared or approved by me, and that I am a duly licensed Professional Enegineer under the laws of the State of Maryland, License No.: 16905, Expiration Date: 4.21.2022

PROFESSIONAL SEAL:

PRINTS ISSUED

NO:	DESCRIPTION:	DATE:
1	BID DOCUMENTS	10/21/2020
2	ADDENDUM #2	11/25/2020
3	ADDENDUM #3	12/01/2020
4	ADDENDUM #4	12/03/2020
5		

TAX MAP FT62 WSSC 224NW09 PLAT 12762

9TH ELECTION DISTRICT

CITY OF GAITHERSBURG, MD

GAITHERSBURG CLUSTER ELEMENTARY SCHOOL #8

MONTGOMERY COUNTY PUBLIC

SHEET TITLE: SOIL EROSION, SEDIMENT CONTROL **AND STORMWATER**

SHEET NO:

Sheet 12 of 28